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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2002-134132

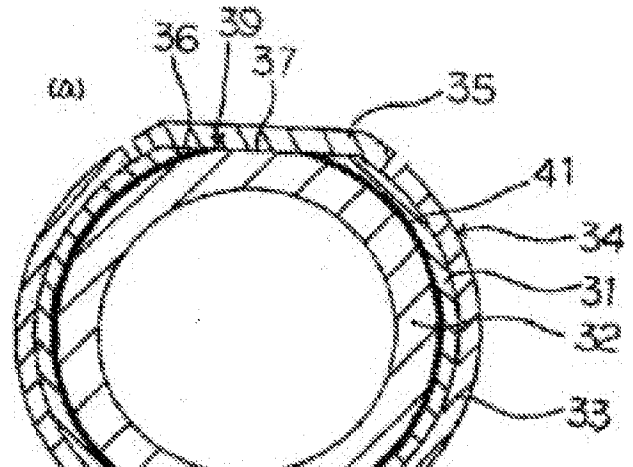
(43)Date of publication of
application : 10.05.2002

(51)Int.Cl.	H01M	8/02
	H01M	4/86
	H01M	8/12

(21)Application number :	2000- 329629	(71) Applicant :	KYOCERA CORP
(22)Date of filing :	27.10.2000	(72)Inventor :	NISHIHARA MASAHITO SHIGEHISA TAKASHI YAMASHITA SHOJI

(54) SOLID ELECTROLYTE FUEL CELL AND ITS
MANUFACTURING METHOD

(57)Abstract:
PROBLEM TO BE
SOLVED: To provide
a cell of a solid
electrolyte fuel cell,
capable of providing
high output density at
early stage and
keeping high output
density over a long
time, and to provide
the manufacturing



method thereof.

SOLUTION: The cell of the solid electrolyte fuel cell is

manufactured, in such a way that a solid electrolyte 31 whose main component is ZrO_2 and a fuel

electrode 33 are stacked on the surface of an air electrode 32, comprising a perovskite type composite oxide containing La and Mn, and the air electrode 32 and the solid electrolyte 31 are sintered simultaneously. A diffusion preventing layer 41 comprising an oxide of Y, Zr, and Ce is formed between the solid electrolyte 31 and the air electrode 32.

